

IN THE CLAIMS:

Please amend Claims 1, 2, 10 to 13 and 17 to 19 as shown below. The claims, as pending in the subject application, now read as follows:

1. (Currently amended) An information processing apparatus that serves as a host computer for forming print data which can be interpreted by a printing apparatus, comprising:

a selection unit which selects one of a plurality of print profiles provided for one printing apparatus stored in a storage unit, each print profile comprising a combination of a plurality of pieces of print setting information;

a reception unit which receives ~~receiving means for receiving~~ draw information based on a print document formed by an application in accordance with a printing instruction;

~~obtaining means for obtaining a plurality of pieces of print set information stored in a storage unit;~~

a estimation unit which estimates ~~estimating means for estimating~~, based on the draw information received by said reception unit ~~receiving means~~ and the print profile selected by said selection unit, a plurality of pieces of print time for the selected print profile set ~~information obtained by said obtaining means, a plurality of print times, each required for a printing process of the received draw information, and which estimates, based on the received draw information and a print profile not selected by said selection unit, a print time for the non-selected print profile required for a printing process of the received draw~~ the plurality of print times respectively corresponding to the plurality of pieces of print set information;

a display control unit which displays the print time for the selected print profile and the print time for the non-selected print profile ~~means for controlling such that the plurality of print times~~ estimated by said estimation unit ~~estimating means~~ for the draw information are displayed before the print data is formed; and

a forming control unit which ~~means for forming~~, if execution of the printing process is determined after the plurality of print times are displayed by said display control unit ~~means~~, forms the [[said]] print data which can be interpreted by the printing apparatus based on the draw information received by said reception unit and the print profile selected by said selection unit and which, if execution of the printing process is canceled after the plurality of print times are displayed by said display control unit, cancels forming of the print data ~~receiving means and a selected one of the plurality of pieces of print set information.~~

2. (Currently amended) An apparatus according to claim 1, wherein said estimation unit estimates the print time using obtaining means obtains the draw information including an ID of every object constructing the [[said]] print document before the execution of the print through an expansion API provided between a printer driver and the [[said]] application.

3. (Original) An apparatus according to claim 1, wherein said print set information is information regarding print quality in said print data.

4. (Original) An apparatus according to claim 1, wherein said print set information includes information regarding print quality in said print data and information regarding a print layout.

5. (Previously presented) An apparatus according to claim 1, wherein said estimating means estimates the print time required for the printing process of one piece of draw information received by said receiving means for each of the plurality of pieces of print set information obtained by said obtaining means, and further comprising:

informing means for informing the user of the print times estimated for the plurality of pieces of print set information by said estimating means before said print data is formed by said forming means.

6. (Original) An apparatus according to claim 5, wherein said informing means provides said print time and a user interface for promoting an input of an instruction to execute the printing process which requires said print time.

7. (Original) An apparatus according to claim 6, wherein the user interface which is informed by said informing means accepts the input of the instruction for canceling the execution of the printing process which requires said print time.

8. (Previously presented) An apparatus according to claim 1, further comprising setting means for setting the plurality of pieces of print set information to be obtained by said obtaining means.

9. (Original) An apparatus according to claim 1, further comprising transmitting means for transmitting said print data to said printing apparatus through a network.

10. (Currently amended) An information processing method of forming print data which can be interpreted by a printing apparatus, comprising:

a selecting step of selecting one of a plurality of print profiles provided for one printing apparatus stored in a storage unit, each print profile comprising a combination of a plurality of pieces of print setting information;

a receiving step of receiving draw information based on a print document formed by an application in accordance with a printing instruction;

~~an obtaining step of obtaining a plurality of pieces of print set information stored in a storage unit~~

an estimating step of estimating, based on the draw information received in said receiving step and the print profile selected in said selecting step, a print time for the selected print profile ~~plurality of pieces of print set information obtained in said obtaining step, a plurality of print times, each~~ required for a printing process of the received draw information, and of estimating, based on the received draw information and a print profile not selected in said selecting step, a print time for the non-selected print profile required for a printing process of the received draw ~~the plurality of print times respectively corresponding to the plurality of pieces of print set~~ information;

a display control step of displaying the print time for the selected print profile and the print time for the non-selected print profile ~~controlling such that the plurality of print times~~ estimated in said estimating step for the draw information ~~are displayed~~ before the print data is formed; and

a forming control step of forming, if execution of the printing process is determined after the plurality of print times are displayed in said display control step, the [[said]] print data which can be interpreted by the printing apparatus based on the draw information received in said receiving step and the print profile selected in said selecting step and which, if execution of the printing process is canceled after the plurality of print times are displayed in said display control step, cancels forming of the print data ~~a selected one of the plurality of pieces of~~ print set information.

11. (Currently amended) A computer-readable memory medium which stores an information processing program for an information processing apparatus that serves as a host computer for forming print data which can be interpreted by a printing apparatus, wherein said program comprises:

a selecting step of selecting one of a plurality of print profiles provided for one printing apparatus stored in a storage unit, each print profile comprising a combination of a plurality of pieces of print setting information;

a receiving step of receiving draw information based on a print document formed by an application in accordance with a printing instruction;

~~an obtaining step of obtaining a plurality of pieces of print set information stored in a storage unit;~~

an estimating step of estimating, based on the draw information received in said receiving step and the print profile selected in said selecting step, a print time for the selected print profile ~~plurality of pieces of print set information obtained in said obtaining step, a plurality of print times, each~~ required for a printing process of the received draw information, and of

estimating, based on the received draw information and a print profile not selected in said selecting step, a print time for the non-selected print profile required for a printing process of the received draw ~~the plurality of print times respectively corresponding to the plurality of pieces of print-set information;~~

a display control step of displaying the print time for the selected print profile and the print time for the non-selected print profile ~~controlling such that the plurality of print times estimated in said estimating step for the draw information are displayed~~ before the print data is formed; and

a forming control step of forming, if execution of the printing process is determined after the plurality of print times are displayed in said display control step, the [[said]] print data which can be interpreted by the printing apparatus based on the draw information received in said receiving step and the print profile selected in said selecting step and which, if execution of the printing process is canceled after the plurality of print times are displayed in said display control step, cancels forming of the print data ~~a selected one of the plurality of pieces of print-set information.~~

12. (Currently amended) A computer-executable program stored on a computer-readable memory medium, said program for forming print data which can be interpreted by a printing apparatus, said program comprising:

a selecting step of selecting one of a plurality of print profiles provided for one printing apparatus stored in a storage unit, each print profile comprising a combination of a plurality of pieces of print setting information;

a receiving step of receiving draw information based on a print document formed by an application in accordance with a printing instruction;

~~an obtaining step of obtaining a plurality of pieces of print set information stored in a storage unit;~~

an estimating step of estimating, based on the draw information received in said receiving step and the print profile selected in said selecting step, a print time for the selected print profile ~~plurality of pieces of print set information obtained in said obtaining step, a plurality of print times, each~~ required for a printing process of the received draw information, and of estimating, based on the received draw information and a print profile not selected in said selecting step, a print time for the non-selected print profile required for a printing process of the received draw ~~the plurality of print times respectively corresponding to the plurality of pieces of print set information;~~

a display control step of displaying the print time for the selected print profile and the print time for the non-selected print profile ~~controlling such that the plurality of print times~~ estimated in said estimating step for ~~for~~ the draw information ~~information~~ are displayed before the print data is formed; and

a forming control step of forming, if execution of the printing process is determined after the plurality of print times are displayed in said display control step, the ~~the~~ print data which can be interpreted by the printing apparatus based on the draw information received in said receiving step and the print profile selected in said selecting step and which, if execution of the printing process is canceled after the plurality of print times are displayed in said display control step, cancels forming of the print data ~~a selected one of the plurality of pieces of print set information.~~

13. (Currently amended) An information processing apparatus that serves as a host computer for forming print data which can be interpreted by a printing apparatus, comprising:

a reception unit which receives ~~obtaining means for obtaining~~ draw information based on a print document formed by an application in accordance with a printing instruction;

an analysis unit which analyzes the draw information received by said reception unit;

an estimation unit which estimates ~~estimating means for, based on the draw information obtained by said obtaining means and a plurality of print modes stored in a storage unit, estimating a plurality of print times respectively corresponding to a plurality of print modes,~~ each required for a printing process of the draw information received by said reception unit based on an analysis result obtained by said analysis unit and, the plurality of print times respectively corresponding to the plurality of print modes for one printing apparatus stored in a storage unit, each print mode comprising a combination of a plurality of pieces of print setting information;

a display control unit which displays in correspondence to the plurality of print modes ~~means for controlling such that~~ the plurality of print times estimated by said estimation unit ~~estimating means for the draw information are displayed in correspondence to the plurality of print modes;~~

a selection unit which selects ~~means for selecting~~ one of the plurality of print modes displayed by said display control unit in accordance with an instruction input means via a user interface; [[and]]



a forming unit which forms the means for forming said print data based on the one  
print mode selected by said selection unit means and the draw information received by said  
reception unit; and

a transmission unit which transmits the print data formed by said forming unit to  
the printing apparatus obtained by said obtaining means.

14. (Previously presented) An apparatus according to claim 13, wherein said display control means allows a button for displaying a preview image for confirming an image quality to be displayed in correspondence to said plurality of print modes.

15. (Original) An apparatus according to claim 13, further comprising discriminating means for analyzing the draw information which is obtained by said obtaining means and discriminating a proper print mode from said plurality of print modes, wherein said display control means allows a message for recommending the print mode discriminated by said discriminating means to be displayed.

16. (Original) An apparatus according to claim 15, wherein said discriminating means discriminates the proper print mode on the basis of a ratio of color data of the draw information.

17. (Currently amended) An information processing method of forming print data which can be interpreted by a printing apparatus, comprising:

~~a receiving step which receives an obtaining step of obtaining~~ draw information based on a print document formed by an application in accordance with a printing instruction;

an analyzing step which analyzes the draw information received in said receiving step;

an estimating step of ~~based on the draw information obtained in said obtaining step and a plurality of print modes stored in a storage unit~~, estimating a plurality of print times respectively corresponding to a plurality of print modes, each required for a printing process of the draw information received in said receiving step, based on an analysis result obtained in said analyzing step and the plurality of print times respectively corresponding to the plurality of print modes for one printing apparatus stored in a storage unit, each print mode comprising a combination of a plurality of pieces of print setting information;

a display control step of displaying in correspondence to the plurality of print modes ~~controlling such that the plurality of print times estimated in said estimating step for the draw information are displayed in correspondence to the plurality of print modes~~;

a selection step of selecting one of the plurality of print modes displayed in said display control step in accordance with an instruction input via a user interface; [[and]]

a forming step of forming the print data based on the one print mode selected in said selection step and the draw information received in said receiving ~~obtained in said obtaining~~ step; and

a transmitting step of transmitting the print data formed in said forming step to the printing apparatus.

18. (Currently amended) A computer-readable memory medium which stores an information processing program for an information processing apparatus that serves as a host computer for forming print data which can be interpreted by a printing apparatus, wherein said program comprises:

a receiving step which receives ~~an obtaining step of obtaining~~ draw information based on a print document formed by an application in accordance with a printing instruction;

an analyzing step which analyzes the draw information received in said receiving step;

~~an estimating step of, based on the draw information obtained in said obtaining step and a plurality of print modes stored in a storage unit, estimating a plurality of print times respectively corresponding to a plurality of print modes, each required for a printing process of the draw information received in said receiving step, based on an analysis result obtained in said analyzing step and the plurality of print times respectively corresponding to the plurality of print modes for one printing apparatus stored in a storage unit, each print mode comprising a combination of a plurality of pieces of print setting information~~;

a display control step of displaying in correspondence to the plurality of print modes ~~controlling such that the plurality of print times estimated in said estimating step for the draw information are displayed in correspondence to the plurality of print modes~~;

a selection step of selecting one of the plurality of print modes displayed in said display control step in accordance with an instruction input via a user interface; [[and]]

a forming step of forming the print data based on the one print mode selected in said selection step and the draw information received in said receiving ~~obtained in said obtaining step~~; and

a transmitting step of transmitting the print data formed in said forming step to the printing apparatus.

19. (Currently amended) A computer-executable program stored on a computer-readable memory medium, the program for forming print data which can be interpreted by a printing apparatus, said program comprising:

a receiving step which receives ~~an obtaining step of obtaining~~ draw information based on a print document formed by an application in accordance with a printing instruction;

an analyzing step which analyzes the draw information received in said receiving step;

~~an estimating step of, based on the draw information obtained in said obtaining step and a plurality of print modes stored in a storage unit,~~ estimating a plurality of print times respectively corresponding to a plurality of print modes, each required for a printing process of the draw information received in said receiving step, based on an analysis result obtained in said analyzing step and the plurality of print times respectively corresponding to the plurality of print modes for one printing apparatus stored in a storage unit, each print mode comprising a combination of a plurality of pieces of print setting information;

a display control step of displaying in correspondence to the plurality of print modes ~~controlling such that~~ the plurality of print times estimated in said estimating step for the draw information ~~are displayed in correspondence to the plurality of print modes;~~

a selection step of selecting one of the plurality of print modes displayed in said display control step in accordance with an instruction input via a user interface; [[and]]

a forming step of forming the print data based on the one print mode selected in said selection step and the draw information received in said receiving ~~obtained in said obtaining~~ step; and

a transmitting step of transmitting the print data formed in said forming step to the printing apparatus.

20. (Previously presented) An apparatus according to Claim 5, further comprising selection means for selecting one of the plurality of pieces of print set information stored in the storage unit for execution of the printing process after said informing means informs the user of the estimated print times.

21. (Previously presented) An apparatus according to claim 5, wherein said display control means controls such that the plurality of print times, each required for the printing process of the draw information, respectively corresponding to the plurality of print modes, are displayed simultaneously.